

CLAIMS

What is claimed is:

34 Bq
C2 1. A mechanism for automatic synchronization of scripting variables between a page
2 containing action tags, and a tag library, the mechanism comprising:

3 a pageContext object for each page, the pageContext object containing a mapping of
4 scripting variables to values; and

5 a TagExtraInfo object for each action tag, the TagExtraInfo object containing a
6 method that returns a list of available scripting variables and a variable type associated with
7 each variable.

Sub B17 2. The mechanism of Claim 1, wherein when the page is translated, a translator
2 consults the TagExtraInfo object to obtain the list of available scripting variables.

Sub Q2 3. The mechanism of Claim 2, wherein the pageContext object is created when the
2 page is executed (run-time).

1 4. The mechanism of Claim 3, wherein the TagExtraInfo object comprises:

2 a valid Java object name for each variable;

3 a Java type for each variable; and

4 a scope parameter that specifies a variable's scope relative to the page.

1 5. The mechanism of Claim 4, wherein the tag library does not know which scripting
2 language is used to create the page.

Sub Q3 6. The mechanism of Claim 5, wherein the page is a JavaServer Page.

1 7. A method for automatically synchronizing scripting variables between a page and a
2 tag library, the method comprising:

3 creating for each action tag a TagExtraInfo object that contains a list of available
4 scripting variables and a variable type associated with each variable;

5 translating the page by referring to the list of scripting variables in the TagExtraInfo
6 object associated with each action tag in the page;
7 executing the page; and
8 creating for each page at execution, a pageContext object that contains a mapping of
9 scripting variables to values.

1 8. The method of Claim 7, wherein the TagExtraInfo object comprises:

- 2 a valid Java object name for each variable;
- 3 a Java type for each variable; and
- 4 a scope parameter that specifies a variable's scope relative to the page.

1 9. The method of Claim 8, wherein the tag library does not know which scripting
2 language is used to create the page.

1 SUB 94 10. The method of Claim 9, wherein the page is a JavaServer Page.

1 11. A computer readable medium including computer program code for providing
2 automatic synchronization of scripting variables in a tag extension mechanism, the computer
3 readable medium comprising:

4 computer program code for creating for each page a pageContext object that contains
5 a mapping of scripting variables to values; and

6 computer program code for creating for each action tag a TagExtraInfo object that
7 contains a list of available scripting variables and a variable type associated with each
8 variable.

1 12. A computer system for providing automatic synchronization of scripting variables
2 in a tag extension mechanism, the computer system comprising:

3 a processor; and

4 computer program code operating on the processor for creating for each page a
5 pageContext object that contains a mapping of scripting variables to values; and

- 6 computer program code for creating for each action tag a TagExtraInfo object that
- 7 contains a list of available-scripting variables and a variable type associated with each
- 8 variable.

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